

Prediction of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$



S = power density

P = power input to the antenna

G = antenna gain

R = distance

Conducted output power:	<u>36</u>	(dBm) EIRP
	<u>3981</u>	(mW) EIRP
	<u>4</u>	(W) EIRP
Distance:	<u>20</u>	(cm)
Duty Cycle:	<u>100</u>	(%)
Frequency:	<u>2400</u>	(MHz)
MPE Limit:	<u>1</u>	(mW/cm ²)
Power density:	<u>0.79</u>	(mW/cm ²)
	<u>7.9</u>	(W/m ²)
Margin	<u>1.0</u>	(dB)